Bossier Parish Community College
Master Syllabus

Course Prefix and Number: BLGY 224 **Credit Hours:** 3

Course Title: Human Anatomy

Course Prerequisites: Reading competency

Textbook: Saladin, H.; Human Anatomy, 2nd edition

Course Description:
Structure of the human body with emphasis on the anatomy of the organ systems, based on an understanding of cellular and tissue structure. Clinical applications included. (This course was formerly listed as ZLGY 124.)

Learning Outcomes:

At the end of this course students will

A. utilize anatomical terminology to describe the structure of the human body;
B. relate the structure and function of cells and tissues to the anatomy of the human body; and
C. describe the structure of the organs of the body and relate the structure to the function.

To achieve the learning outcomes, the student will

1. define anatomy and physiology. (A)
2. explain why Latin was used as the basis for anatomic nomenclature. (A)
3. explain what is meant by levels of organization. (A)
4. describe the location of the major body cavities. (A)
5. properly use the terms that describe relative positions, body sections, and body regions. (A)
6. explain how cells differ from one another. (B)
7. describe the general characteristics and components of a composite cell. (B)
8. describe each kind of cytoplasmic organelle and state its function. (B)
9. describe the cell nucleus and its parts. (B)
10. describe the life cycle of a cell. (B)
11. describe the general characteristics and functions of epithelial tissue. (B)
12. name and label the major types of epithelium (B)
13. describe the general characteristics of connective tissue. (B)
14. describe the major cell types and fibers of connective tissues. (B)
15. name and label the major types of connective tissue. (B)
16. describe the structure and location of the 3 types of muscle tissue. (B)
17. describe the general characteristics of nerve tissue. (B)

18. define and describe four major types of membranes. (A,B)
19. describe the structure of the layers of skin. (C)
20. describe the accessory organs associated with skin. (C)
21. classify bones according to their shapes and name an example from each group. (A,C)
22. describe the general structure of a long bone. (C)
23. describe the process of ossification and bone remodeling. (A)
24. explain how bones develop and grow. (C)
25. discuss the major functions of bones. (C)
26. distinguish between the axial and appendicular skeletons and name the bones of each. (A,C)
27. identify the bones and major features of bones that comprise the skull, vertebral column, thoracic cage, pectoral girdle, upper limb, pelvic girdle, and lower limb. (C)
28. explain how joints can be classified according to structure and amount of movement they permit. (C)
29. describe the general structure of a synovial joint. (C)
30. list 6 types of synovial joints and give an example of each (A, C)
31. identify the types of joint movements. (A)
32. describe the structure of a skeletal muscle. (C)
33. explain how muscles interact to produce movement. (C)
34. identify and describe the locations of the major skeletal muscles of each body region and describe the actions of each muscle. (C)
35. describe the general characteristics of nerve tissue. (B)
36. describe the structure of a neuron. (B)
37. explain how neurons are classified. (B)
38. name four types of neuroglial cells and the functions of each type (B)
39. describe the structure of the spinal cord and its major functions. (C)
40. name the parts of the brain and describe the functions of each. (C)
41. distinguish between motor, sensory, and association areas of the cerebral cortex. (C)
42. describe the formation, circulation and re-absorption of CSF. (C)
43. describe the structure of a peripheral nerves. (C)
44. explain the structure of spinal nerves (C)
45. describe the general characteristic of the autonomic nervous system. (C)
46. describe the structure of the organs associated with the senses of smell and taste (C)
47. name the parts of the ear and the function of each part. (C)
48. name the parts of the eye and the function of each part. (C)
49. distinguish between endocrine and exocrine glands. (C)
50. name and describe the location of the major endocrine glands (C)
51. describe the structures of the major endocrine glands. (C)
52. name the organs of the cardiovascular system. (C)
53. describe the structure and basic function of the blood components (C)
54. name and describe the location of the parts of the heart. (C)
55. trace the pathway of blood through the heart. (C)

56. trace the flow of blood through the coronary circulation. (C)
57. compare the structures and functions of the major types of blood vessels. (C)
58. compare the pulmonary and systemic circuits. (C)
59. list the major vessels of the pulmonary circuit. (C)
60. list the major vessels of the systemic circuit. (C)
61. describe the general functions of the lymphatic system. (C)
62. describe the pathway of lymph. (C)
63. describe how lymph is formed. (C)
64. describe a lymph node and the locations of the major lymph nodes. (C)
65. describe the structures of the thymus and spleen. (C)
66. name and describe the locations of the organs of the respiratory system. (C)
67. describe the structure and function of the respiratory membrane. (C)
68. locate the respiratory center and explain how it controls breathing. (C)
69. name and describe the location of the organs of the digestive system and their major parts. (C)
70. describe the structure of the walls of the alimentary canal. (B)
71. name the organs of the urinary system and list their general functions. (C)
72. describe the location and structure of the kidneys. (C)
73. trace the pathway of blood through the kidney. (C)
74. label a nephron. (C)
75. describe the structure of the ureter, urinary bladder, and urethra. (C)
76. identify the parts of the male reproductive system and the functions of each part. (C)
77. describe the structure of sperm cell. (B)
78. identify the parts of the female reproductive system and the functions of each part. (C)

Course Requirements

- minimum average of 60% on unit tests
- minimum average of 50% on the comprehensive final test
- satisfactory completion of review of scientific literature

Course Grading Scale:

A- 90% or more of total possible points and a minimum average of 60% on unit tests and a minimum average of 50% on the comprehensive final test and satisfactory completion of a review of scientific literature

B- 80% or more of total possible points and a minimum average of 60% on unit tests and a minimum average of 50% on the comprehensive final test and satisfactory completion of a review of scientific literature

C- 70% or more of total possible points and a minimum average of 60% on unit tests and a minimum average of 50% on the comprehensive final test and satisfactory completion of a review of scientific literature

D- 60% or more of total possible points and a minimum average of 60% on unit tests and a minimum average of 50% on the comprehensive final test and satisfactory completion of a review of scientific literature

F- less than 60% of total possible points or less than 60% average on unit tests or less than 50% on the comprehensive final test or failure to satisfactorily complete a review of scientific literature

Reviewed by T. Breeland/May 2009